Appl. No. 10/525,621 Amdt. dated October 29, 2007 Reply to Office Action of July 27, 2007

## EXHIBIT 1: Alignment of Xenopus APC (Query) with Murine APC (Subject)

spig61315 APC MOUSE						
gb AAB59632.1  <b>UG</b> APC Length=2845						
Score = 1357 bits (3512), Expect = 0.0, Method: Composition-based stats. Identities = 742/861 (86%), Positives = 790/861 (91%), Gaps = 8/861 (0%)						
Query	1	MAAASYDQLVKQVEALTMENTNLRQELEDNSNHLTKLETEATNMKEVLKQLQGSIEDEAM MAAASYDQL+KQVEAL MEN+NLRQELEDNSNHLTKLETEA+NMKEVLKQLQGSIEDE M	60			
Sbjct	1	MAAASYDQLLKQVEALKMENSNLRQBLEDNSNHLTKLETEASNMKEVLKQLQGSIEDETM	60			
Query	61	ASSGPIDLLERFKDLNLDSSNIPAGKARPKMSMRSYGSREGSLSGHSGECSPVPVGSFQR +SG IDLLER K+ NLDS N P K R KMS+RSYGSREGS+S SGECSPVP+GSF R	120			
Sbjct	61	-TSGQIDLLERLKEFNLDS-NFPGVKLRSKMSLRSYGSREGSVSSRSGECSPVPMGSFPR	118			
Query	121	RGLLNGSRESAGYMEELEKERLLLIAEHEKEEKEKRWYYAQLQNLTKRIDSLPLTENFSM R +NGSRES GY+EELEKER LL+A+ +KEEKEK WYYAQLQNLTKRIDSLPLTENFS+	180			
Sbjct	119	${\tt RTFVNGSRESTGYLEELEKERSLLLADLDKEEKEKDWYYAQLQNLTKRIDSLPLTENFSL}$	178			
Query	181	QTDMTRRQLEYEARQIRAAMEBQLGTCQDMEKRVQTRVGKIHQIEEEILRIRQLLQSQVA QTDMTRRQLEYEARQIRAAMEBQLGTCQDMEKR Q R+ +I QIE++1LR+RQLLQSQ A	240			
Sbjct	179	QTDMTRRQLEYEARQIRAAMEEQLGTCQDMEKRAQRRIARIQQIEKDILRVRQLLQSQAA	238			
Query	241	EAAERTPQSKHDAGSRDAEKLPDGQGTSEITASGNVGSGQGSSSRADHDTTSVMSSNSTY EA ER+ OS+HDA S +A + +G G +E + + SGQ ++R DH+T SV+SS+ T+	300			
Sbjct	239	EA-ERSSQSRHDAASHEAGRQHEGHGVAESNTAAS-SSGQSPATRVDHETASVLSSSGTH	296			
Query	301	SVPRRLTSHLGTKVEMVYSLLSMLGTHDKDDMSRTLLAMSSSQDSCIAMRQSGCLPLLIQ S PRRLTSHLGTKVEMVYSLLSMLGTHDKDDMSRTLLAMSSSQDSCI+MRQSGCLPLLIQ	360			
Sbjct	297	${\tt SAPRRLTSHLGTKVEMVYSLLSMLGTHDKDDMSRTLLAMSSSQDSCISMRQSGCLPLLIQ}$	356			
Query	361	LLHGNDKDSVLLGNSRGSKEARASGSAALDNIIHSQPDDKRGRREIRVLHLLEQIRAYCE LLHGNDKDSVLLGNSRGSKEARA SAAL NIIHSQPDDKRGRREIRVLHLLEQIRAYCE	420			
Sbjct	357	LLHGNDKDSVLLGNSRGSKEARARASAALHNIIHSQPDDKRGRREIRVLHLLEQIRAYCE	416			
Query	421	TCWEWQEAHEQGMDQDKNPMPAPVDHQICPAVCVLMKLSFDEEHRHAMNELGGLQAIAEL TCWEWOEAHEOGMDODKNPMPAPV+HOICPAVCVLMKLSFDEEHRHAMNELGGLQAIAEL	480			
Sbjct	417	TCWEWQEAHEQGMDQDKNPMPAPVEHQICPAVCVLMKLSFDEEHRHAMNELGGLQAIAEL	476			
Query	481	LQVDCEMYGLINDHYSVTLRRYAGMALTNLTFGDVANKATLCSMKSCMRALVAQLKSESE LQVDCEMYGL NDHYSVTLRRYAGMALTNLTFGDVANKATLCSMK CMRALVAQLKSESE	540			
Sbjct	477	LQVDCEMYGLTNDHYSVTLRRYAGMALTNLTFGDVANKATLCSMKGCMRALVAQLKSESE	536			
Query	541	DLQQVIASVLRNLSWRADVNSKKTLREVGSVKALMECALDVKKESTLKSVLSALWNLSAH DLQQVIASVLRNLSWRADVNSKKTLREVGSVKALMECAL+VKKESTLKSVLSALWNLSAH	600			
Sbjct	537	DLQQVIASVLRNLSWRADVNSKKTLREVGSVKALMECALEVKKESTLKSVLSALWNLSAH	596			

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Query	601	CTENKADICSVDGALAFLVSTLTYRSQTNTLAIIESGGGILRNVSSLIATNEDHRQILRE CTENKADIC+VDGALAFLV TLTYRSOTNTLAIIESGGGILRNVSSLIATNEDHRQILRE	660		
Sbjct	597	CTENKADIC+VDGADAFLV THIRSQIMIDATESGGGILRNVSSDIATNEDHRQIDRE CTENKADICAVDGALAFLVGTLTYRSQTNTLAIIESGGGILRNVSSLIATNEDHRQILRE	656		
Query	661	NNCLQTLLQHLKSHSLTIVSNACGTLWNLSARNAKDQEGLWDMGAVSMLKNLIHSKHKMI NNCLOTLLQHLKSHSLTIVSNACGTLWNLSARN KDQE LWDMGAVSMLKNLIHSKHKMI	720		
Sbjct	657	NNCLQTLLQHLKSHSLTIVSNACGTLWNLSARN KDQE DWDWGAVSHDKUTHSKRKWI NNCLQTLLQHLKSHSLTIVSNACGTLWNLSARNPKDQEALWDMGAVSMLKNLIHSKHKMI	716		
Query	721	AMGSAAALRNLMANRPAKYKDANIMSPGSSVPSLHVRKQKALBAELDAQHLSETFDNIDN AMGSAAALRNLMANRPAKYKDANIMSPGSS+PSLHVRKOKALBAELDAQHLSETFDNIDN	780		
Sbjct	717	AMGSAAALRNLMANRPAKYKDANIMSPGSSLPSLHVRKQKALEAELDAQHLSETFDNIDN	776		
Query	781	LSPKTTHRNKQRHKQNLCSBYALDSSRHDDSICRSDNFSIGNLTVLSPYINTTVLPGSSS LSPK +HR+KQRHKQNL +YA D++RHDDS RSDNF+ GN+TVLSPY+NTTVLP SSS	840		

Sbjct 777 LSPKASHRSKQRHKQNLYGDYAFDANRHDDS--RSDNFNTGNMTVLSPYLNTTVLPSSSS 834

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